

L Number	Hits	Search Text	DB	Time stamp
1	93	THACKERAY-J-.in. THACKERAY-JAMES-.in. THACKERAY-JAMES-W-.in. THACKERAY-J-W-.in. ORSULA-GEORGE-W-.in. ORSULA-GEORG-W-.in. ORSULA-G-W-.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/20 17:06
2	3317	430/155,322,324,327,950.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/20 17:07
9	22154	(anthracene or (anthracenyl or anthryl))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/20 17:09
3	64	(anthracene or (anthracenyl or anthryl)) with ((antireflecti\$3 or anti-reflecti\$3 or anti adj reflecti\$3) or (antihalati\$3 or anti-halati\$3 or anti adj halati\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/20 17:10
4	17	(anthracene or (anthracenyl or anthryl)) with ((antireflecti\$3 or anti-reflecti\$3 or anti adj reflecti\$3) or (antihalati\$3 or anti-halati\$3 or anti adj halati\$3)) with ((cross-linker or crosslinker or cross adj linker) or (cross-link\$3 or crosslink\$3 or cross adj link\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/20 17:12
5	47	((anthracene or (anthracenyl or anthryl)) with ((antireflecti\$3 or anti-reflecti\$3 or anti adj reflecti\$3) or (antihalati\$3 or anti-halati\$3 or anti adj halati\$3))) not ((anthracene or (anthracenyl or anthryl)) with ((antireflecti\$3 or anti-reflecti\$3 or anti adj reflecti\$3) or (antihalati\$3 or anti-halati\$3 or anti adj halati\$3)) with ((cross-linker or crosslinker or cross adj linker) or (cross-link\$3 or crosslink\$3 or cross adj link\$3)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/20 17:13
6	28	(anthracenyl\$ or anthracene or (anthracenyl or anthryl)) same ((antireflecti\$3 or anti-reflecti\$3 or anti adj reflecti\$3) or (antihalati\$3 or anti-halati\$3 or anti adj halati\$3)) same (cross-link\$3 or crosslink\$3 or cross adj link\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/20 17:13
7	89	((anthracenyl\$ or anthracene or (anthracenyl or anthryl)) same ((antireflecti\$3 or anti-reflecti\$3 or anti adj reflecti\$3) or (antihalati\$3 or anti-halati\$3 or anti adj halati\$3))) not ((anthracenyl\$ or anthracene or (anthracenyl or anthryl)) same ((antireflecti\$3 or anti-reflecti\$3 or anti adj reflecti\$3) or (antihalati\$3 or anti-halati\$3 or anti adj halati\$3)) same (cross-link\$3 or crosslink\$3 or cross adj link\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/20 17:15
10	118	430/155,322,324,327,950.ccls. and ((anthracene or (anthracenyl or anthryl)) )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/20 17:16

=>  
Uploading C:\Program Files\Stnexp\Queries\nicole.str

L1        STRUCTURE UPLOADED

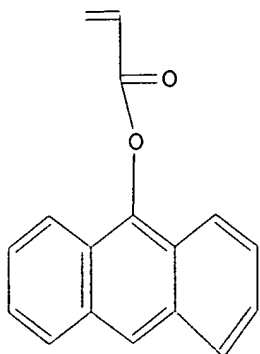
=> que L1

L2    QUE L1

=> d

L2 HAS NO ANSWERS

L1                STR



Structure attributes must be viewed using STN Express query preparation.  
L2                QUE   ABB=ON   PLU=ON   L1

=> s l1 sss sam

SAMPLE SEARCH INITIATED 11:06:38 FILE 'REGISTRY'

SCREENING

SCREENING

SAMPLE SCREEN SEARCH COMPLETED -        34 TO ITERATE

100.0% PROCESSED        34 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.43

FULL FILE PROJECTIONS:    ONLINE    \*\*COMPLETE\*\*  
                              BATCH    \*\*COMPLETE\*\*

PROJECTED ITERATIONS:        331 TO        1029

PROJECTED ANSWERS:            1 TO        80

L3                1 SEA SSS SAM L1

=> file caplus uspatfull

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.96

1.11

FILE 'CAPLUS' ENTERED AT 11:07:49 ON 19 FEB 2002  
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=> s l3 full

L4                1 L3

=> d 14 ibib abs hitstr

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:361422 CAPLUS

DOCUMENT NUMBER: 131:145762

TITLE: Crosslinking vs. interdiffusion rates in  
melamine-formaldehyde cured latex coatings: A model  
for waterborne automotive basecoat

AUTHOR(S): Winnik, Mitchell A.; Pinenq, Patrick; Kruger,  
Christian; Zhang, Jianxin; Yaneff, Philip V.

CORPORATE SOURCE: University of Toronto, Can.

SOURCE: J. Coat. Technol. (1999), 71(892), 47-60

CODEN: JCTEDL; ISSN: 0361-8773

PUBLISHER: Federation of Societies for Coatings Technology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Designing optimal formulations for automotive waterborne basecoats can be fairly complex, often requiring knowledge of events that occur at the mol. level. The ultimate performance of the coating can depend upon the success with which this knowledge is applied. We examine a system in which an aq. dispersion of an acrylic latex with -OH functionality reacts with a melamine deriv. when heated. We use fluorescence-labeling and energy transfer measurements to obtain information on the relative rates of crosslinking and interparticle polymer diffusion in these films. We show that temp. and particle morphol. play an important role in the development of film properties. Finally, these energy transfer expts. provide information on the location of the melamine-formaldehyde resin in the dry film before the onset of crosslinking. This system can serve as a model for waterborne basecoat development in many automotive applications.

IT 236390-13-9, 9-Anthryl methacrylate-butyl methacrylate-2-hydroxyethyl methacrylate-methacrylic acid copolymer

RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(crosslinking vs. interdiffusion rates in melamine-formaldehyde-cured methacrylic waterborne automotive basecoats)

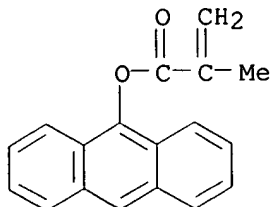
RN 236390-13-9 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 9-anthracenyl  
2-methyl-2-propenoate, butyl 2-methyl-2-propenoate and 2-hydroxyethyl  
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 32468-70-5

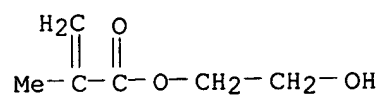
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CM 2

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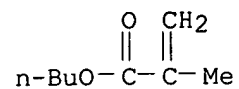
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CM 3

CRN 97-88-1

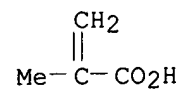
CMF C8 H14 O2



CM 4

CRN 79-41-4

CMF C4 H6 O2



REFERENCE COUNT:

27

THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT